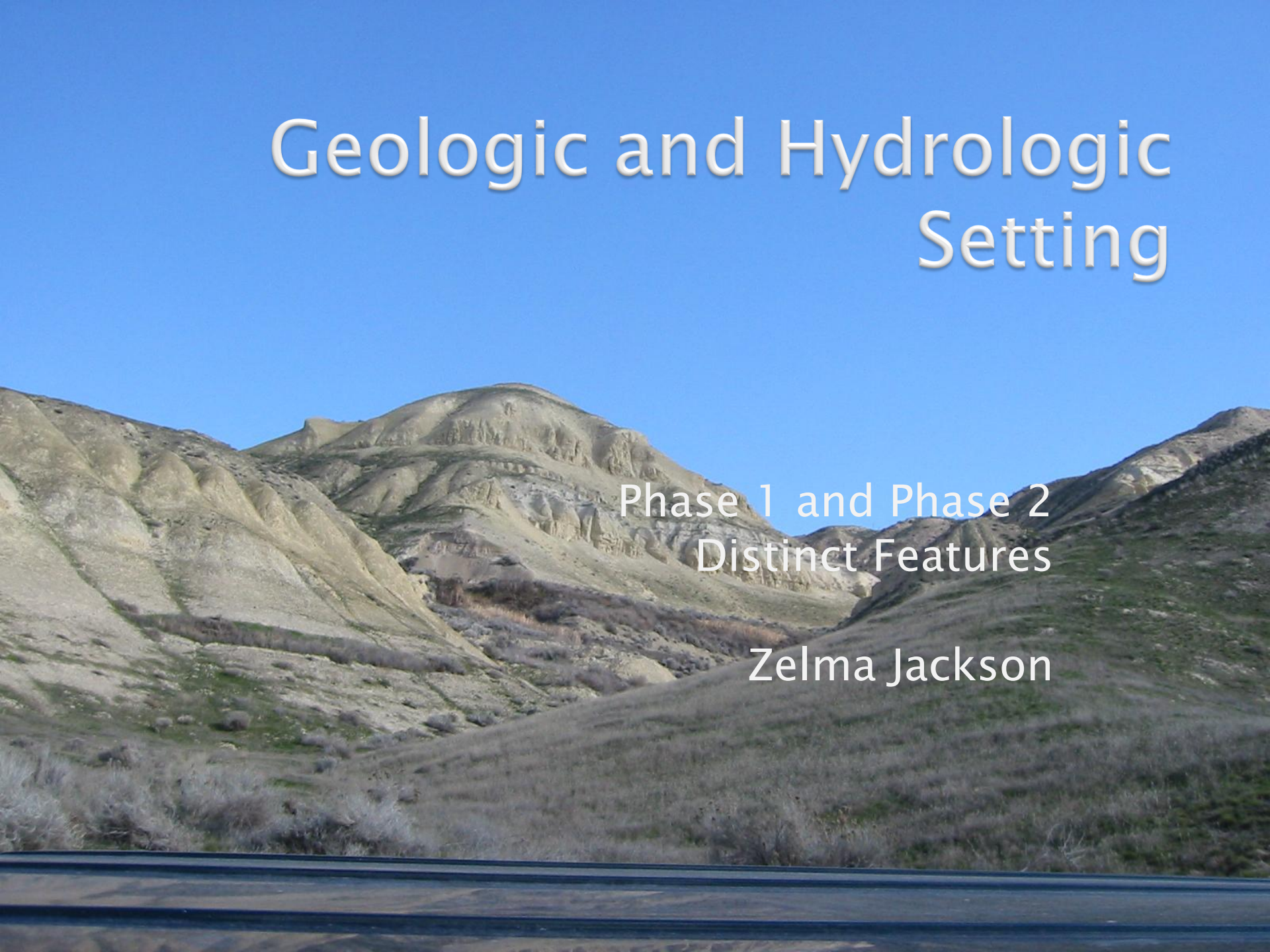


Geologic and Hydrologic Setting

Phase 1 and Phase 2
Distinct Features

Zelma Jackson

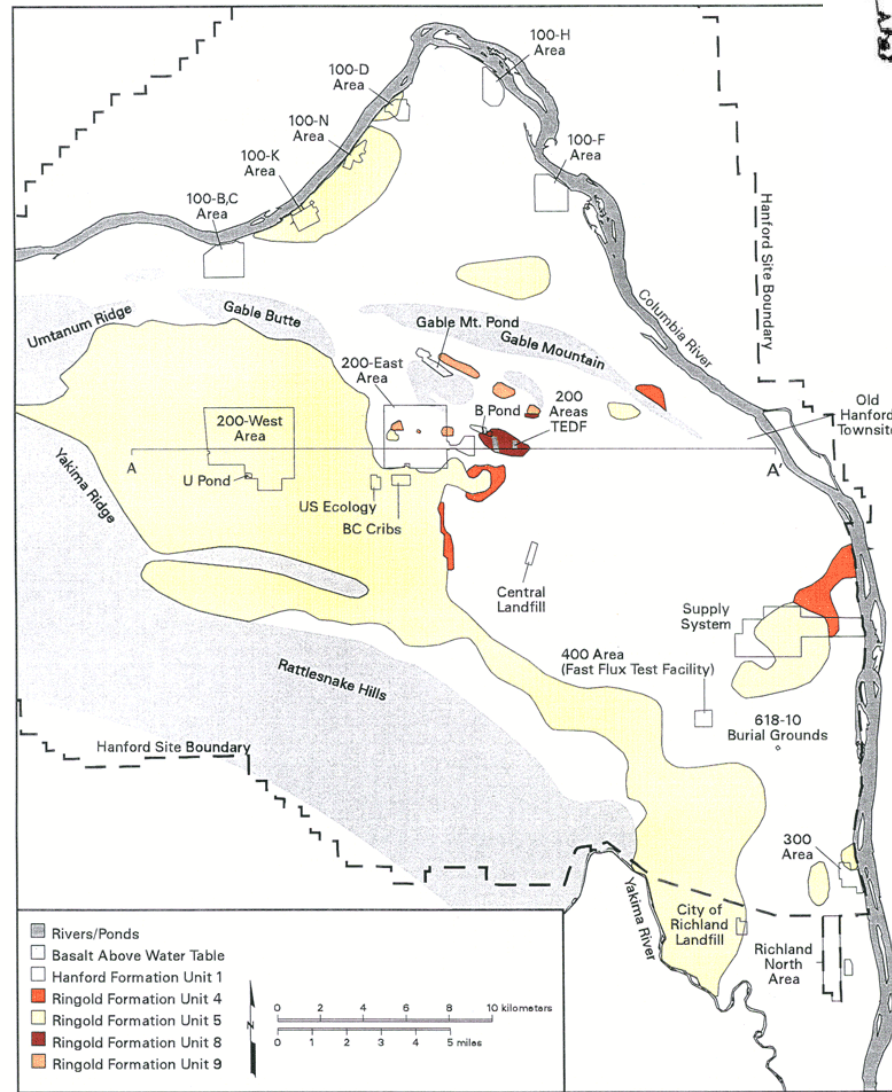


North by Gable Butte
and Saddle Mountain

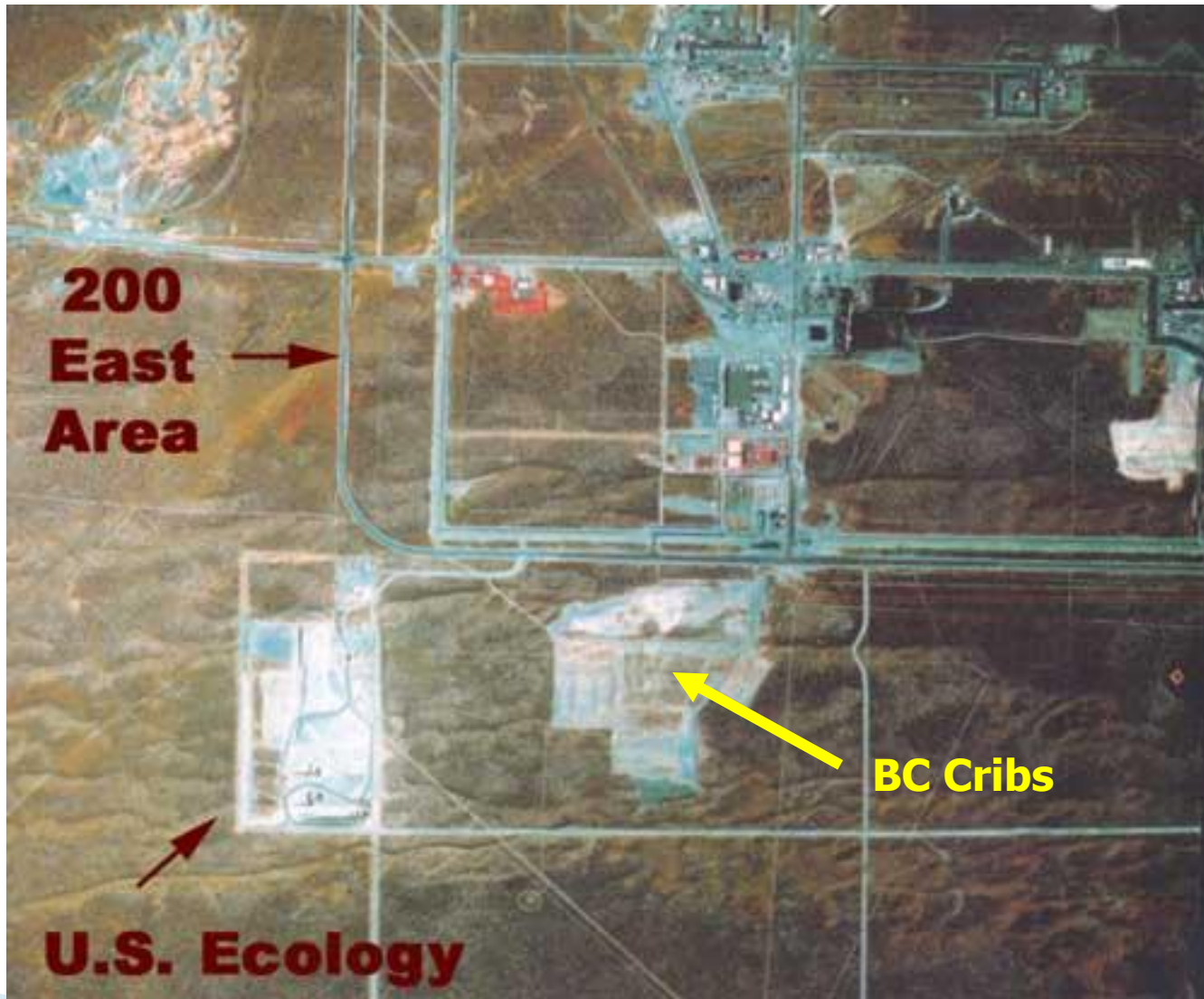
The site
is
bounded
by:

West by
Umtanum
Ridge
And Yakima
Ridge

East by
Columbia
River



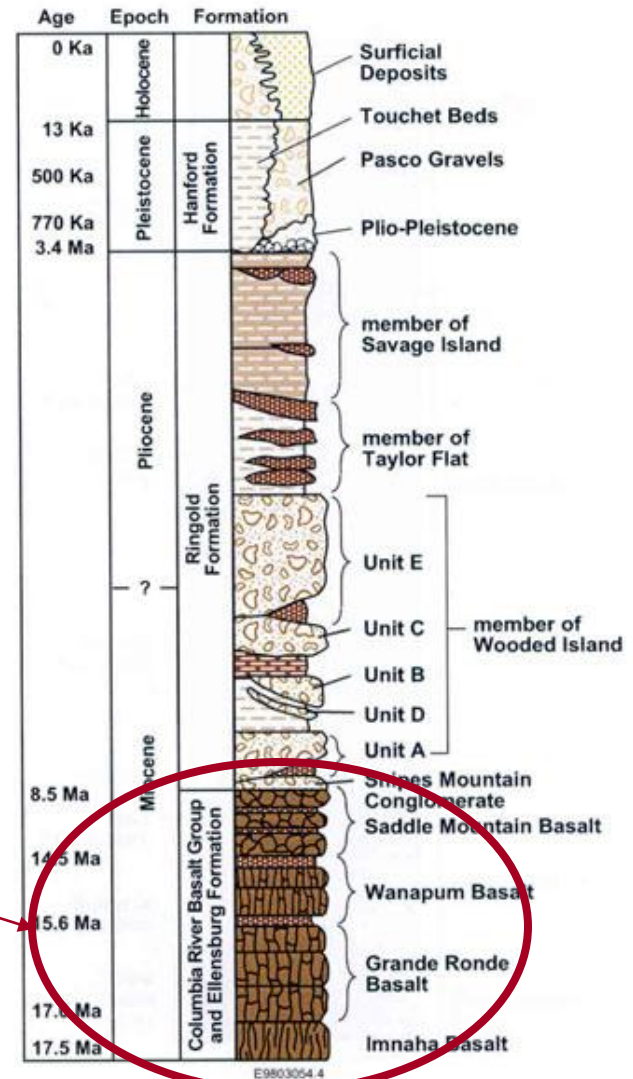
South by Rattlesnake Ridge



Geologic Setting:

Late Cenozoic Stratigraphy of the Pasco Basin

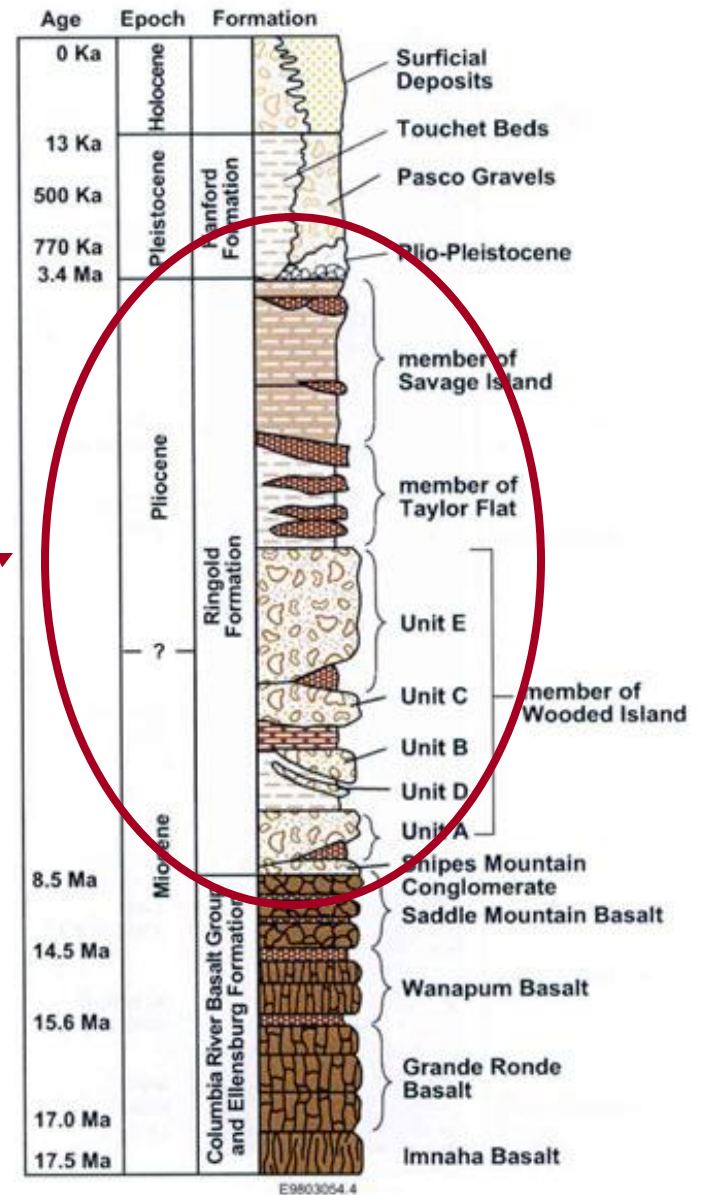
Columbia River Basalt Group



Geologic Setting:

Late Cenozoic Stratigraphy of the Pasco Basin

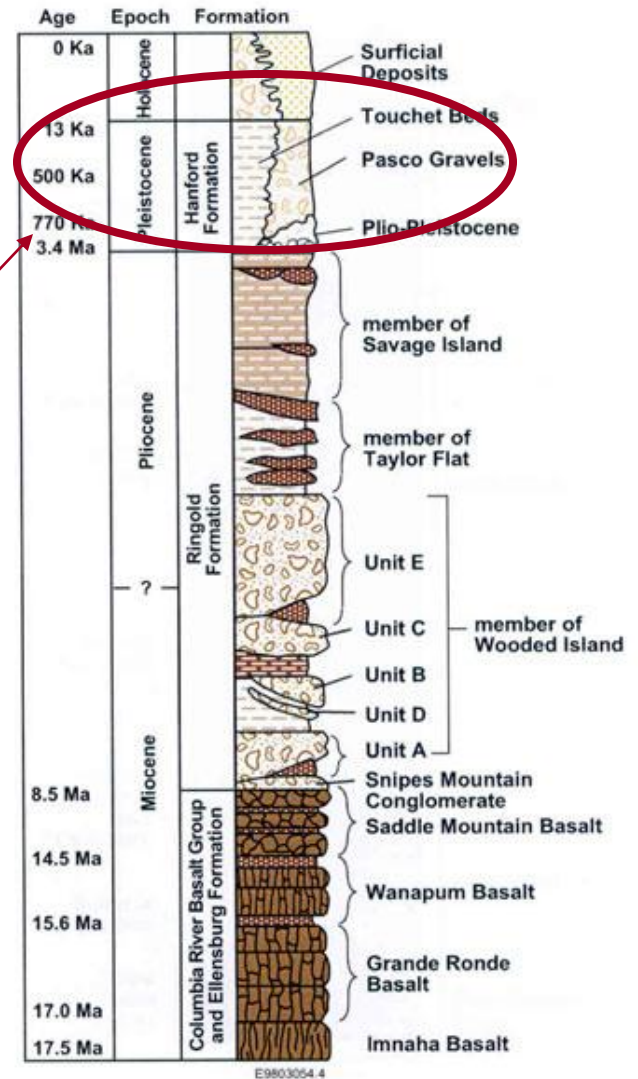
Ringold Formation



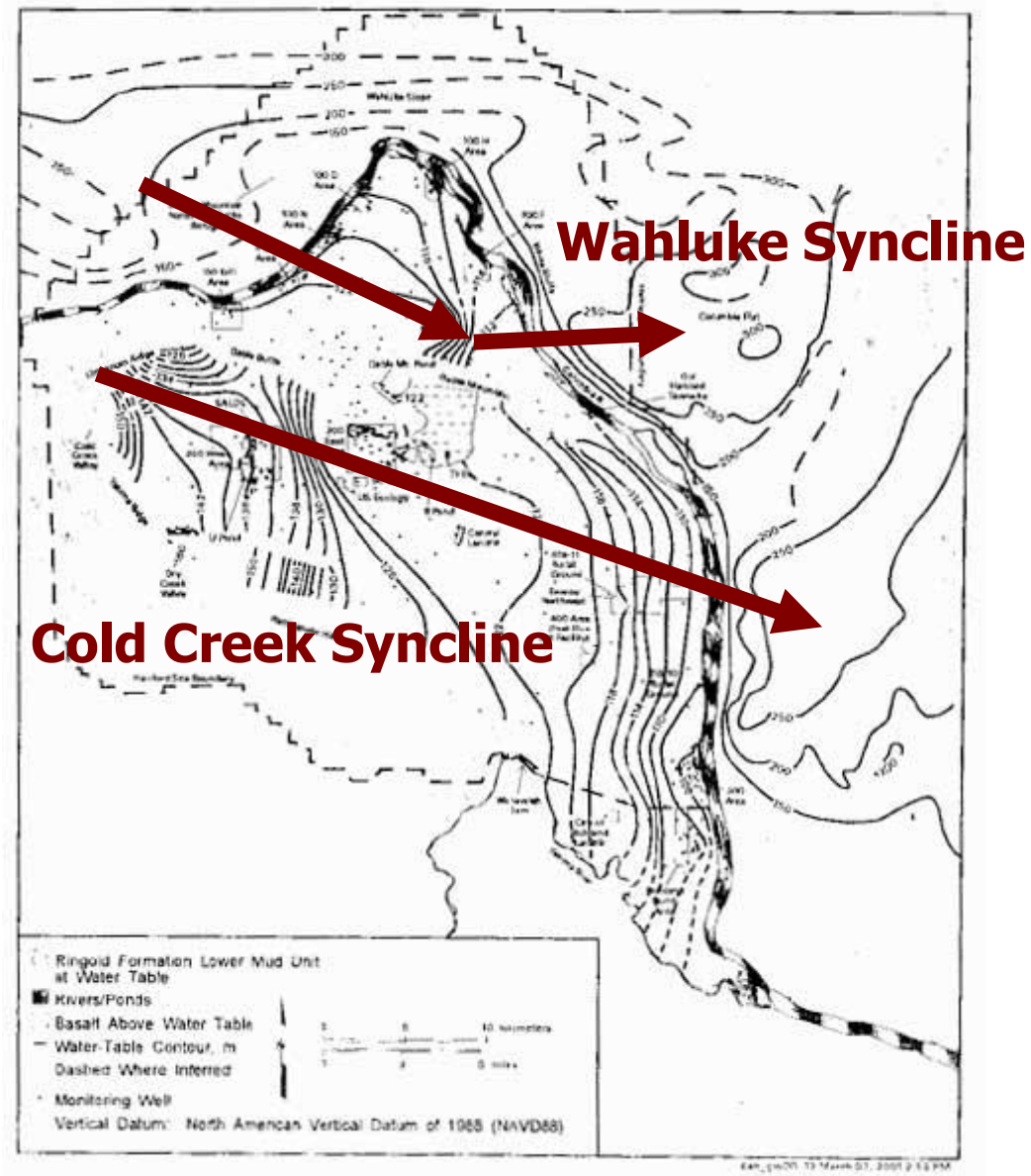
Geologic Setting:

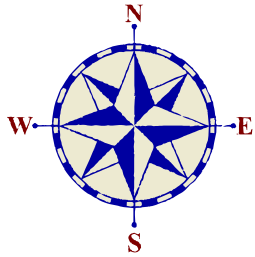
Late Cenozoic Stratigraphy of the Pasco Basin



Plio-Pleistocene Deposit

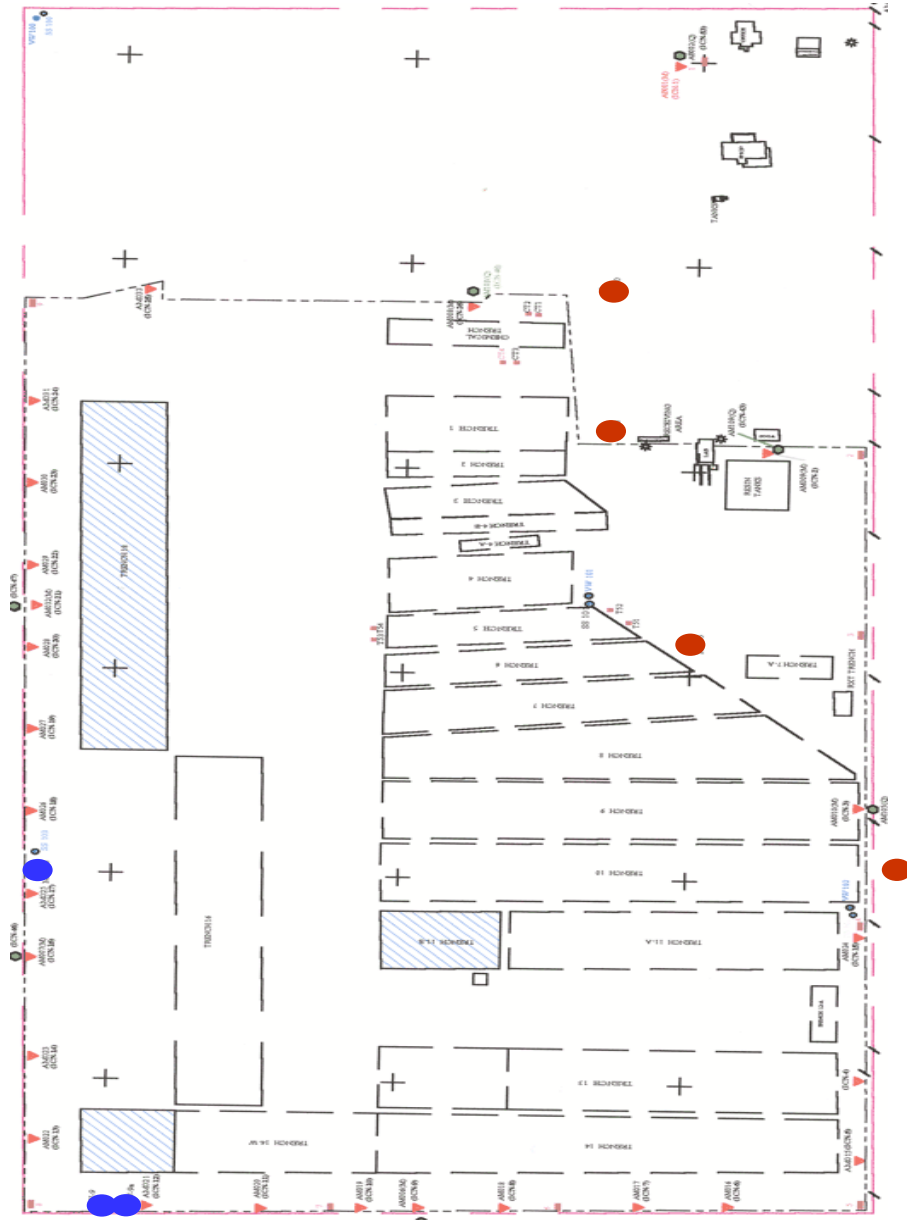


Hydrology Setting





-  Upgradient
-  Downgradient



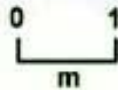
Previous Investigations

- ▶ Assess soil and gas beneath trenches for presence of chemical constituents
- ▶ Assess nature of release for impact to human health and the environment
- ▶ Provide additional analyses
- ▶ Quarterly groundwater sampling

Phase 1

Phase 2

Clastic dike near US Ecology



E9803054.64

Waste emplacement in 2002

7/17/02



Conclusion

- ▶ Clastic dikes may be a preferential pathway for the migration of contaminants.
 - ▶ Clastic dikes are the result of the Pasco Basin's formation and their distribution pattern is reflected on the surface and in the subsurface.
 - ▶ The Pasco Basin's stratigraphy, complex hydrogeology, groundwater flow direction and past disposal practices in unlined trenches support migration of contaminants in the vadose zone to groundwater.
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